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## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	334	silica WITH glass AND ("outer layer" OR susceptor) AND (crucible OR vessel OR container OR refractory OR pot OR reactor) AND (groove OR scratch)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 11:23
L2	425	silica WITH (glass OR quartz) AND ("outer layer" OR susceptor) AND (crucible OR vessel OR container OR refractory OR pot OR reactor) AND (groove OR scratch)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 11:24
L3	100	silica WITH (glass OR quartz) AND ("outer layer" OR susceptor) AND (crucible OR vessel OR container OR refractory OR pot OR reactor) AND (groove OR scratch) AND fluoride	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 11:26
L4	246	silica WITH (glass OR quartz) AND ("outer layer" OR susceptor) AND (crucible OR vessel OR container OR refractory OR pot OR reactor) AND (groove OR scratch OR cut OR gouge) AND fluoride	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 11:27
L5	11	silica WITH (glass OR quartz) AND ("outer layer" OR susceptor) AND (crucible OR vessel OR container OR refractory OR pot OR reactor) AND (groove OR scratch OR cut OR gouge) AND ("hydrogen fluoride" OR "ammonium fluoride")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 11:37
L6	52	silica WITH (glass OR quartz) AND ("outer layer" OR susceptor) AND (crucible OR vessel OR container OR refractory OR pot OR reactor) AND (groove OR scratch OR cut OR gouge) AND ("hydrogen fluoride" OR "ammonium fluoride" OR "hydrofluoric acid")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 11:38

## EAST Search History

L7	14	silica WITH (glass OR quartz) AND ("outer layer" OR susceptor) AND (crucible OR vessel OR container OR refractory OR pot OR reactor) AND (groove OR scratch OR cut OR gouge) AND ("hydrogen fluoride" OR "ammonium fluoride" OR "hydrofluoric acid") AND sand	US-PGPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ON	2007/09/06 11:42
L8	14	silica WITH (glass OR quartz) AND ("outer layer" OR susceptor) AND (crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") AND (groove OR scratch OR cut OR gouge) AND ("hydrogen fluoride" OR "ammonium fluoride" OR "hydrofluoric acid") AND sand	US-PGPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ON	2007/09/06 11:43
L9	40	(silica OR glass OR quartz) AND ("outer layer" OR susceptor) AND (crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") AND (groove OR scratch OR cut OR gouge) AND ("hydrogen fluoride" OR "ammonium fluoride" OR "hydrofluoric acid") AND sand	US-PGPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ON	2007/09/06 11:49
L10	7	(silica OR glass OR quartz) AND (bond OR adhere OR attach) SAME (crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (groove OR scratch OR cut OR gouge) AND ("hydrogen fluoride" OR "ammonium fluoride" OR "hydrofluoric acid") AND sand NOT L9	US-PGPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ON	2007/09/06 12:15
L11	71	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (groove OR scratch OR cut OR gouge) SAME surface AND ("hydrogen fluoride" OR "ammonium fluoride" OR "hydrofluoric acid") AND sand NOT L9	US-PGPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ON	2007/09/06 12:16

## EAST Search History

L12	7	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (groove OR scratch OR cut OR gouge) SAME surface AND ("hydrogen fluoride" OR "ammonium fluoride" OR "hydrofluoric acid") AND sand WITH blast NOT L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:20
L13	9	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (groove OR scratch OR cut OR gouge) AND ("hydrogen fluoride" OR "ammonium fluoride" OR "hydrofluoric acid") AND sand WITH blast NOT L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:20
L14	265910	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (groove OR scratch OR cut OR gouge) sand WITH blast NOT L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:21
L15	253	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (groove OR scratch OR cut OR gouge) AND sand WITH blast NOT L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:28
L16	1995	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (groove OR scratch OR cut OR gouge) AND roughened WITH surface	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:28
L17	468	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (groove OR scratch OR cut OR gouge) AND roughened WITH surface AND bond	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:28
L18	40	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (groove OR scratch OR cut OR gouge) AND roughened WITH surface WITH outer AND bond	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:29

## EAST Search History

L19	101	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (groove OR scratch OR cut OR gouge) AND (rough OR roughened) WITH surface WITH outer AND bond	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:45
L20	912	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (rough OR roughened) WITH surface WITH outer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:36
L21	0	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (rough OR roughened) WITH surface WITH outer NOT L20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:36
L22	854	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (rough OR roughened) WITH surface WITH outer NOT L19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:37
L23	682	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (rough OR roughened) WITH surface NEAR3 outer NOT L19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:56
L24	69	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") SAME (rough OR roughened) WITH surface NEAR3 outer NOT L19 and SAND	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:43
L26	14	("2947114").URPN.	USPAT	OR	ON	2007/09/06 12:42

## EAST Search History

L27	56	(US-20030158030-\$ or US-20020078886-\$ or US-20040072007-\$ or US-20040040497-\$ or US-20040232583-\$ or US-20030012899-\$ or US-20030012898-\$ or US-20040206762-\$).did. or (US-6893709-\$ or US-4212343-\$ or US-3837825-\$ or US-6743293-\$ or US-5922127-\$ or US-6338906-\$ or US-6524668-\$ or US-6712901-\$ or US-6808744-\$ or US-5989021-\$ or US-4515755-\$ or US-6717064-\$ or US-6503858-\$ or US-5714267-\$ or US-4688623-\$ or US-6553787-\$ or US-4721688-\$ or US-6139632-\$ or US-5690734-\$ or US-6015461-\$ or US-4748933-\$ or US-4855261-\$ or US-6200385-\$ or US-4613306-\$ or US-6641628-\$ or US-4865668-\$). did. or (US-6171393-\$ or US-6393685-\$ or US-6634929-\$ or US-4671839-\$ or US-6023130-\$ or US-6178306-\$ or US-6150006-\$ or US-4952462-\$ or US-4802160-\$ or US-7111476-\$ or US-6951585-\$ or US-5714841-\$ or US-6110273-\$ or US-4471488-\$ or US-3775077-\$ or US-5063003-\$ or US-5736206-\$). did. or (US-3370921-\$ or US-2471663-\$ or US-2982623-\$ or US-2947114-\$).did. or (SU-1020382-\$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/09/06 12:43
L28	14	I6 and (rough OR roughened)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:44
L29	3	L26 and (rough OR roughened)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:44

## EAST Search History

L30	2	L26 AND (groove OR scratch OR cut OR gouge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:45
L31	4	L26 AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:47
L32	49	L27 AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:09
L33	2456	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") AND (rough OR roughened OR etched) WITH "outer surface"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:57
L34	904	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") AND (rough OR roughened OR etched) WITH "outer surface" AND (bond OR adhere)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:57
L35	178	(crucible OR vessel OR container OR refractory OR pot OR reactor OR "refractory container") AND (rough OR roughened OR etched) WITH "outer surface" SAME (bond OR adhere)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 12:59
L36	33	(crucible OR refractory OR "refractory container") AND (rough OR roughened OR etched) WITH "outer surface" SAME (bond OR adhere)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:01

## EAST Search History

L37	65	(crucible OR refractory OR "refractory container") AND (rough OR roughened OR etched OR groove) WITH "outer surface" SAME (bond OR adhere)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:01
L38	32	(crucible OR refractory OR "refractory container") AND (rough OR roughened OR etched OR groove) WITH "outer surface" SAME (bond OR adhere) NOT L36	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:03
L39	169	432/264	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:04
L40	146	432/262	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:04
L41	11	432/262 AND (rough Or roughened OR scratch)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:08
L42	931	"432".CLAS. AND (rough OR roughened OR scratch)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:08
L43	502	"432".CLAS. AND (rough OR roughened OR scratch) AND outer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:09

## EAST Search History

L44	111	"432".CLAS. AND (rough OR roughened OR scratch) AND outer AND (groove OR etch)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:09
L45	5399	"432".CLAS. AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:10
L46	3105	"432".CLAS. AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened) AND outer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:10
L47	1402	"432".CLAS. AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened) AND outer WITH surface	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:10
L48	191	"432".CLAS. AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened) AND outer WITH surface AND (bond OR adhere)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:10
L49	7	"432".CLAS. AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened) AND outer WITH surface AND (bond OR adhere) AND crucible	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:15
L50	146	"432".CLAS. AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened) AND "outer surface" AND (bond OR adhere)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:16



## EAST Search History

L51	11	"432".CLAS. AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened) WITH "outer surface" AND (bond OR adhere)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:17
L52	95	"432".CLAS. AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened) WITH "outer surface"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:17
L53	84	"432".CLAS. AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened) WITH "outer surface" NOT L51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:20
L54	9	"432".CLAS. AND (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened) WITH "outer surface" AND crucible	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:21
L55	78	(groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened) WITH "outer surface" SAME crucible	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:26
L56	0	"outer surface of a crucible wall" SAME (groove OR scratch OR cut OR gouge OR rough OR sanded OR roughened)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:26
L57	0	"outer surface of a crucible wall"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:27

## EAST Search History

L58	1692	"crucible wall"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 13:27
L59	44	"crucible wall" SAME groove	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 14:20
L60	1508	"NIPPON CARBON"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 14:20
L61	131	"NIPPON CARBON" AND crucible	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 14:20
L62	13	"NIPPON CARBON" AND crucible AND groove	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/06 14:21
L63	13	("20010032580"   "20020086119"   "20020139143"   "20030211335"   "4637571"   "4935046"   "4956208"   "5885071"   "5976247"   "5980629"   "6319313"   "6350312"   "6461427").PN. OR ("7118789"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:31
L64	3	L63 AND (rough OR roughened)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:33
L65	12	L63 AND (outer OR outside)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:33
L66	12	L63 AND (outer OR outside OR rough OR roughened)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:35

## EAST Search History

L67	12	L63 AND (outer OR outside OR rough OR roughened OR groove)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:39
L68	0	L63 AND groove	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:35
L69	3	L63 AND (rough OR roughened OR groove)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:40
L70	1841833	"outer surface" (rough OR roughened OR groove OR "sand blast")	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:41
L71	102	"outer surface" SAME (rough OR roughened OR groove OR "sand blast") SAME crucible	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:41
L72	1	"outer surface" SAME groove SAME "sand blast" SAME crucible	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:42
L73	1	"outer surface" SAME groove AND "sand blast" SAME crucible	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:42
L74	1	"outer surface" SAME groove AND "sand blast" AND crucible	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:42
L75	1	"outer surface" AND groove AND "sand blast" AND crucible	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:42
L76	110	"outer surface" AND groove AND "sand blast"	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:44
L78	55	outer WITH surface AND groove AND "sand blast" AND (silica or quartz)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:51
L79	2787	(carbon OR carboneous OR graphite) SAME outer AND crucible	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:52
L80	1495	(carbon OR carboneous OR graphite) SAME outer SAME crucible	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:52
L81	755	(carbon OR carboneous OR graphite) SAME outer SAME crucible AND (silica OR quartz)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:52
L82	588	(carbon OR carboneous OR graphite) SAME outer SAME crucible AND (silica OR quartz) AND inner	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:53

## EAST Search History

L83	126	(carbon OR carboneous OR graphite) SAME outer SAME crucible AND (silica OR quartz) WITH glass AND inner	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:53
L84	13	(carbon OR carboneous OR graphite) SAME outer SAME crucible AND (silica OR quartz) WITH glass AND inner AND groove	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/06 14:53